Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(379/229 379/230 379/221.08 379/221.1 379/221.03) and (link adj failure) and (offhold and on$hold)	USPAT	OR	OFF	2004/03/15 15:30
		(signal$3 adj gateway) and ss7 and (signal adj2 failure) and rout$3	USPAT	OR	OFF	2004/03/10 19:04
L1	91	ticket near voucher	USPAT	OR	OFF	2004/12/29 16:43
L2	30	(ticket near voucher) and routing	US-PGPUB; USPAT	OR	OFF	2004/12/29 18:26
L3	16	"5165024"	US-PGPUB; USPAT	OR	OFF	2004/12/29 16:47
L5	6	3 and ticket near3 voucher	US-PGPUB; USPAT	OR	OFF	2004/12/29 16:47
L6	12	(ticket near3 voucher) and (call near3 signal$5)	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:52
L9	3	"5699349"	US-PGPUB; USPAT	OR	OFF	2004/12/29 16:50
L10	5617	alcatel.as.	US-PGPUB; USPAT	OR	OFF	2004/12/29 16:52
L13	3	10 and (distributed and telecommunication).ti.	US-PGPUB; USPAT	OR	OFF	2004/12/29 16:53
L18	53	tekelec.as.	US-PGPUB; USPAT	OR	OFF	2004/12/29 17:20
L19	1	18 and ticket near3 voucher	US-PGPUB; USPAT	OR	OFF	2004/12/29 17:55
L21	4716	379/219 379/220 379/221 379/229	US-PGPUB; USPAT	OR	OFF	2004/12/29 17:57
L22	324	21 and (signal$4 near2 node)	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:55
L24	4	21 and (signal$4 near2 node) and linkset and (link near2 failure)	US-PGPUB; USPAT	OR	OFF	2004/12/29 18:13
L25	3	21 and (signal$4 near2 node) and linkset and (link near2 failure) and (node with within)	US-PGPUB; USPAT	OR	OFF	2004/12/29 18:24
L26	3	"6639981"	US-PGPUB; USPAT	OR	OFF	2004/12/29 18:21
L27	2	(signal$4 near2 node) and linkset and (link near2 failure) and (node near2 within)	US-PGPUB; USPAT	OR	OFF	2004/12/29 18:24
L31	11	(ticket near3 voucher) and (call near3 signal$5) and failure	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:53
L36	105	21 and (signal$4 same within same link same node)	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:56

L38	43	21 and (signal$4 same within same link same node same call)	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:58
L39	18	21 and (signal$4 same within same link same node same call same rout$3)	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:56
L40	1	21 and (signal$4 same within same link same node same call same rout$3) and linkset	US-PGPUB; USPAT	OR	OFF	2004/12/29 19:57
L41	29	21 and (signal$4 same within same link same node same call) and (within near3 node)	US-PGPUB; USPAT	OR	OFF	2004/12/29 20:05
L42	7	21 and (signal$4 near10 link near10 failure) and (within near3 node)	US-PGPUB; USPAT	OR	OFF	2004/12/29 20:05
L43	4	21 and (signal$4 near10 link near10 failure) and (within near3 node) and flow and control	US-PGPUB; USPAT	OR	OFF	2004/12/29 20:05
S1	1	link adj signal adj failure	USPAT	OR	OFF	2004/03/11 18:53
S2	2560	ss7 and signal$3	USPAT	OR	OFF	2004/03/10 18:30
S3	4	(ss7 and signal$3) and (secure adj gateway)	USPAT	OR	OFF	2004/03/10 18:32
S4	46	secure adj gateway	USPAT	OR	OFF	2004/03/10 18:33
S5	27	secure adj gateway and signal$3	USPAT	OR	OFF	2004/03/10 18:34
S6	321	signal$3 adj gateway	USPAT	OR	OFF	2004/03/10 18:38
S7	84	signal$3 adj gateway and ss7	USPAT	OR	OFF	2004/03/10 18:39
S8	72	signal$3 adj gateway and incom$3 and outgoing and message	USPAT	OR	OFF	2004/03/10 18:39
S9	18	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1)	USPAT	OR	OFF	2004/03/10 18:42
S10	10	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal	USPAT	OR	OFF	2004/03/10 18:43
S11	4	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal and linkset	USPAT	OR	OFF	2004/03/10 18:45
S12	4	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal and linkset and queue	USPAT	OR	OFF	2004/03/10 18:45

S14	3	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal and linkset and queue$1 and ticket	USPAT	OR	OFF	2004/03/10 18:46
S18	3	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal and linkset and queue$1 and ticket and ss7	USPAT	OR	OFF	2004/03/10 18:47
S19	3	(signal$3 adj gateway) and incom$3 and outgoing and (message adj route$1) and external and link and signal and linkset and queue$1 and ticket and ss7 and tcp/ip	USPAT	OR	OFF	2004/03/10 19:01
S23	4	(signal$3 adj gateway) and ss7 and (signal adj2 failure)	USPAT	OR	OFF	2004/03/10 19:04
S26	3560	709/223	USPAT	OR	OFF	2004/03/11 12:22
S27	35729	"370"/$.ccls.	USPAT	OR	OFF	2004/03/11 12:50
S28	728	709/223 and "370"/$.ccls.	USPAT	OR	OFF	2004/03/11 12:51
S29	1	(709/223 "370"/$.ccls.) and ticket adj voucher	USPAT	OR	OFF	2004/03/11 12:56
S30	38561	709/223 "370"/$.ccls.	USPAT	OR	OFF	2004/03/11 15:42
S31	16399	(709/223 "370"/$.ccls.) and (receiv$3 near signal$3)	USPAT	OR	OFF	2004/03/11 15:46
S32	416	(709/223 "370"/$.ccls.) and (receiv$3 near signal$3 near2 link)	USPAT	OR	OFF	2004/03/11 15:46
S33	35	(709/223 "370"/$.ccls.) and (receiv$3 near signal$3 near2 link) and (route$1 near2 message)	USPAT	OR	OFF	2004/03/11 15:47
S36	3	(709/223 "370"/$.ccls.) and (receiv$3 near signal$3 near2 link) and (route$1 near2 message) and (transmitt$3 adj signal$3)	USPAT	OR	OFF	2004/03/11 15:58
S39	177	(709/223 "370"/$.ccls.) and (signal$3 adj failure)	USPAT	OR	OFF	2004/03/11 16:00
S40	3	(709/223 "370"/$.ccls.) and ((signal$3 adj failure) near3 link)	USPAT	OR	OFF	2004/03/11 16:00
S41	504	ss7 and stp and IP	USPAT	OR	OFF	2004/03/11 18:57
S42	51	(ss7 and stp and IP) and IMT	USPAT	OR	OFF	2004/03/11 18:55
S43	25	(ss7 and stp and IP) and linkset	USPAT	OR	OFF	2004/03/11 18:55
S45	4	(ss7 and stp and IP) and linkset and (failure near message)	USPAT	OR	OFF	2004/03/11 18:56

S47	0	(ss7 and stp and IP) and (failure near message) and (link adj failure)	USPAT	OR	OFF	2004/12/29 21:30
S48	4	ss7 and (failure near message) and (link adj failure)	USPAT	OR	OFF	2004/03/11 18:58
S49	2	ss7 and on$hold and off$hold	USPAT	OR	OFF	2004/03/11 19:04
S53	1	ss7 and on$hold and off$hold and signal and failure and link	USPAT	OR	OFF	2004/03/11 18:59
S56	99	inter$processor adj message	USPAT	OR	OFF	2004/03/11 19:04
S57	9	inter$processor adj message and ss7	USPAT	OR	OFF	2004/03/11 19:06
S58	8	(inter$processor adj message and ss7) and signal and link	USPAT	OR	OFF	2004/03/11 19:06
S59	5	(inter$processor adj message and ss7) and signal and link and failure and route$4	USPAT	OR	OFF	2004/03/11 19:07
S60	1	(inter$processor adj message and ss7) and signal and link and (link adj failure) and route$4	USPAT	OR	OFF	2004/03/11 19:07
S63	50	(379/229 379/230 379/221.08 379/221.1 379/221.03) and (link adj failure)	USPAT	OR	OFF	2004/03/15 15:46
S64	7	(379/229 379/230 379/221.08 379/221.1 379/221.03) and (link adj failure) and (reroute)	USPAT	OR	OFF	2004/03/15 17:09
S67	1370	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message	USPAT	OR	OFF	2004/03/15 17:09
S68	6	on-hold and off-hold	USPAT	OR	OFF	2004/03/15 15:49
S70	1278	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and determin$3	USPAT	OR	OFF	2004/03/15 16:03
S71	224	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3	USPAT	OR	OFF	2004/03/15 16:04
S72	20	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset	USPAT	OR	OFF	2004/03/15 16:04

S73	15	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset and failure	USPAT	OR	OFF	2004/03/15 16:04
S74	17	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset and fail$3	USPAT	OR	OFF	2004/12/29 17:00
S75	7	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset and (link adj fail$3)	USPAT	OR	OFF	2004/03/15 16:05
S76	2	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset and (link adj fail$3) and response and request	USPAT	OR	OFF	2004/03/15 16:05
S77	2	(379/229 379/230 379/221.08 379/221.1 379/221.03) and (receiv$3 adj message) and transmit$3 and (signal$3 adj link) and message and determin$3 and linkset and (link adj fail$3) and response and request	USPAT	OR	OFF	2004/03/15 16:06
S78	1	(379/229 379/230 379/221.08 379/221.1 379/221.03) and (receiv$3 adj message) and (transmit$3 adj message) and (signal$3 adj link) and message and determin$3 and linkset and (link adj fail$3) and response and request	USPAT	OR	OFF	2004/03/15 16:06
S80	73	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (call adj signal)	USPAT	OR	OFF	2004/03/15 17:10
S82	38	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (link adj failure)	USPAT	OR	OFF	2004/03/15 17:12

S83	0	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (link adj failure) and call and ticket	USPAT	OR	OFF	2004/03/15 17:13
S84	0	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (link adj failure) and call and voucher	USPAT	OR	OFF	2004/03/15 17:13
S85	34	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (link adj failure) and call	USPAT	OR	OFF	2004/03/15 17:15
S87	3	(379/229 379/230 379/221.08 379/221.1 379/221.03) and receiv$3 and transmit$3 and signal$3 and message and (link adj failure) and call and buffer and outbound	USPAT	OR	OFF	2004/03/15 17:16
S88	32	((outag$3 fail$4) adj (link)) .ab.	USPAT	OR	OFF	2004/03/16 15:37
S89	2533	379/229 379/230 379/221.08-.1 379/221.1 379/221.03	USPAT	OR	OFF	2004/03/16 15:41
S91	92	(379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3))	USPAT	OR	OFF	2004/03/16 15:48
S92	38	(379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3)) and (inbound incom$5) and (outbound outgo$5)	USPAT	OR	OFF	2004/03/16 15:44
S93	33	(379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3)) and (inbound incom$5) and (outbound outgo$5) and rout$5	USPAT	OR	OFF	2004/03/16 15:44
S94	35	(379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3)) and (inbound incom$5) and (outbound outgo$5) and (rout$5 transfer)	USPAT	OR	OFF	2004/03/16 15:44
S95	11	((379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3)) and (inbound incom$5) and (outbound outgo$5) and (rout$5 transfer)) and (rout$4 adj message)	USPAT	OR	OFF	2004/03/17 12:47

S96	0	((379/229 379/230 379/221.08-.1 379/221.1 379/221.03) and ((link signal$4) adj (fail$4 outag$3)) and (inbound incom$5) and (outbound outgo$5) and (rout$5 transfer)) and ((rout$4 adj message) near3 fail$4)	USPAT	OR	OFF	2004/03/16 15:45
S97	5097	((link signal$4) adj (fail$4 outag$3))	USPAT	OR	OFF	2004/03/16 15:53
S98	677	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5)	USPAT	OR	OFF	2004/03/16 15:54
S99	11	(((link signal$4) adj (fail$4 outag$3))) and ((inbound incom$5) adj message$3) and ((outbound outgo$5) adj messag$3) and ss7	USPAT	OR	OFF	2004/03/16 15:59
S100	9	(((link signal$4) adj (fail$4 outag$3))) and ((inbound incom$5) adj message$3) and ((outbound outgo$5) adj messag$3) and ss7 and (rout$3 adj messag$3)	USPAT	OR	OFF	2004/03/16 16:06
S101	5	(((link signal$4) adj (fail$4 outag$3))) and ((inbound incom$5) adj message$3) and ((outbound outgo$5) adj messag$3) and ss7 and (rout$3 adj messag$3) and ((signal$4 adj link) near fail$5)	USPAT	OR	OFF	2004/03/16 16:07
S102	5	(((link signal$4) adj (fail$4 outag$3))) and ((inbound incom$5) adj message$3) and ((outbound outgo$5) adj messag$3) and ss7 and (rout$3 adj messag$3) and ((signal$4 adj link) near (fail$5 redundan$2))	USPAT	OR	OFF	2004/03/16 16:09
S103	3	(((link signal$4) adj (fail$4 outag$3))) and ((inbound incom$5) adj message$3) and ((outbound outgo$5) adj messag$3) and ss7 and (rout$3 adj messag$3) and ((signal$4 adj link) near (fail$5 redundan$2)) and grant	USPAT	OR	OFF	2004/03/16 17:15
S104	74	"5550914"	USPAT	OR	OFF	2004/03/16 17:15
S105	4	(signal$3 adj gateway) and ss7 and (signal adj2 failure) and (rout$3 near2 message)	USPAT	OR	OFF	2004/03/16 18:55

S107	76	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7	USPAT	OR	OFF	2004/03/17 16:50
S108	23	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue	USPAT	OR	OFF	2004/03/16 18:56
S109	16	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue and timer	USPAT	OR	OFF	2004/03/16 18:56
S110	7	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue and (timer near5 expire$2)	USPAT	OR	OFF	2004/03/16 18:57
S111	1	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue and (timer near5 expire$2) and (rout$3 adj messag$3)	USPAT	OR	OFF	2004/03/16 18:58
S112	1	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue and (timer near5 expire$2) and (rout$3 adj messag$3) and (link and set)	USPAT	OR	OFF	2004/03/16 18:59
S113	1	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and queue and (timer near5 expire$2) and (rout$3 adj messag$3) and (link and set) and card	USPAT	OR	OFF	2004/03/16 18:59
S115	4	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and (stor$3 with queue)	USPAT	OR	OFF	2004/03/16 19:00
S119	2	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and ((stor$3 same queue) same (signal$3 same message$1))	USPAT	OR	OFF	2004/03/16 19:02
S120	74	"5550914"	USPAT	OR	OFF	2004/03/17 12:47
S121	25	(((link signal$4) adj (fail$4 outag$3))) and (inbound incom$5) and (outbound outgo$5) and ss7 and burst	USPAT	OR	OFF	2004/03/17 16:50

S126	2620	379/229 379/230 379/221.08 379/221.1 379/221.03	USPAT	OR	OFF	2004/03/17 16:54
S129	123	burst near3 algorithm	USPAT	OR	OFF	2004/03/17 16:55
S130	1	burst near3 algorithm and ss7	USPAT	OR	OFF	2004/03/17 16:55

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1 Analysis of the link error monitoring protocols in the common channel signaling network
V. Ramaswami, Jonathan L. Wang
February 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 1
Full text available: pdf(1.39 MB) Additional Information: full citation, references, index terms

2 Evaluating the impact of stale link state on quality-of-service routing
Anees Shaikh, Jennifer Rexford, Kang G. Shin
April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2
Full text available: pdf(240.55 KB) Additional Information: full citation, references, citings, index terms

Keywords: explicit routing, link-state, modeling, quality-of-service, signaling, source-directed routing

3 Configurable flow control mechanisms for fault-tolerant routing
Binh Vien Dao, Jose Duato, Sudhakar Yalamanchili
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2
Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms

Fault-tolerant routing protocols in modern interconnection networks rely heavily on the network flow control mechanisms used. Optimistic flow control mechanisms such as wormhole routing (WR) realize very good performance, but are prone to deadlock in the presence of faults. Conservative flow control mechanisms such as pipelined circuit switching (PCS) insures existence of a path to the destination prior to message transmission, but incurs increased overhead. Existing fault-tolerant routing proto ...

4 The transport layer: tutorial and survey
Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4
Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index

terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

5 Parallel architectures for processing high speed network signaling protocols

Dipak Ghosal, T. V. Lakshman, Yennun Huang

December 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 6

Full text available: pdf(1.58 MB) Additional Information: full citation, references, citings, index terms

6 A wireless broadband ad-hoc ATM local-area network

K. Y. Eng, M. J. Karol, M. Veeraraghavan, E. Ayanoglu, C. B. Woodworth, P. Pancha, R. A. Valenzuela

February 1995 **Wireless Networks**, Volume 1 Issue 2

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings

We describe the theory, design and ongoing prototyping of a wireless ATM LAN/PBX capable of supporting mobile users with multi-Mb/s access rates and multi-Gb/s aggregate capacities. Our proposed LAN consists of network nodes called Portable Base Stations (PBS) providing microcell coverage. The PBSs are designed to be low-cost, compact and high-speed and can be relocated conveniently. We employ a concept of ad-hoc networking in the layout of the PBS-to-PBS interconnection. That is, the PBSs ...

7 Scalable flow control for multicast ABR services in ATM networks

Xi Zhang, Kang G. Shin, Debanjan Saha, Dilip D. Kandlur

February 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 1

Full text available: pdf(706.72 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a flow-control scheme for multicast ABR services in ATM networks. At the heart of the proposed scheme is an optimal second-order rate control algorithm, called the α-*control,* designed to deal with the variation in RM-cell round-trip time (RTT) resulting from dynamic drift of the bottleneck in a multicast tree. Applying two-dimensional rate control, the proposed scheme makes the rate process converge to the available bandwidth of the connection's most congested rink sensed ...

Keywords: α-control, ABR, ATM, RTT variations, buffer control, feedback-soft synchronization (SSP), flow control, multicast, multicast flow control, scalability, second-order rate control, target buffer occupancy

8 An integrated platform for reliable multicast support in the regional mobile-IP environment

Hassan Omar, Tarek Saadawi, Myung Lee

April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2

Additional Information:

Full text available: pdf(167.80 KB) full citation, abstract, references, citings, index terms

Supporting reliable delivery of multicast datagrams, in IP networks, may necessitate the introduction of new elements and features. Further, considerable additional signaling may be required to support this service. Providing a platform that efficiently supports IP multicast delivery, in an environment where the multicast group members frequently change their locations, is a challenge for systems supporting mobility. In this paper, we describe a platform that allows the application of an interna ...

9 A teletraffic simulator for circuit switched and signaling intelligent network with SS7
Sophia Scoggins, Mark Scoggins, Jerrold Stach
December 1991 **Proceedings of the 23rd conference on Winter simulation**

Full text available: pdf(771.06 KB) Additional Information: full citation, references, index terms

10 RCBR: a simple and efficient service for multiple time-scale traffic
Matthias Grossglauser, Srinivasan Keshav, David N. C. Tse
December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

Full text available: pdf(617.74 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: compressed video, multiple time scales, renegotiation, variable bit-rate service

11 Dynamic routing of restorable bandwidth-guaranteed tunnels using aggregated network resource usage information
Murali Kodialam, T. V. Lakshman
June 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 3

Full text available: pdf(497.77 KB) Additional Information: full citation, abstract, references, index terms

This paper presents new algorithms for dynamic routing of restorable bandwidth-guaranteed paths. We assume that connection requests one-by-one and have to be routed with no a *priori* knowledge of future arrivals. In order to guarantee restorability, in addition to determining an active path to route each request, an alternate link (node) disjoint backup (restoration) path has to be determined for the request at the time of connection initiation. This joint on-line routing problem is becomi ...

Keywords: Multiprotocol label switching (MPLS), optical networking, quality of service (QoS), restoration

12 Automatic reconfiguration in Autonet
Thomas L. Rodeheffer, Michael D. Schroeder
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25 Issue 5

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms

Autonet is a switch-based local area network using 100 Mbit/s full-duplex point-to-point links. Crossbar switches are interconnected to other switches and to host controllers in an arbitrary pattern. Switch hardware uses the destination address in each packet to determine the proper outgoing link for the next step in the path from source to destination. Autonet automatically recalculates these forwarding paths in response to failures and

additions of network components. This automatic reconfigur ...

13 A virtual circuit switch as the basis for distributed systems
G. W.R. Luderer, H. Che, W. T. Marshall
October 1981 **Proceedings of the seventh symposium on Data communications**

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A communication system is presented which consists of a switch (Datakit [Fraser 1979]) with associated control and interface hardware and software. The switch offers virtual circuit service which is internally implemented through packet switching. The users of the communication system are operating systems; using our communication system, we have implemented a network of UNIXTM systems and a new distributed operating system derived from UNIX. Our work concentrated on th ...

14 Adaptive control algorithms for decentralized optimal traffic engineering in the internet
Constantino M. Lagoa, Hao Che, Bernardo A. Movsichoff
June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Full text available: pdf(512.03 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we address the problem of optimal decentralized traffic engineering when multiple paths are available for each call. More precisely, given a set of possible paths for each call, we aim at distributing the traffic among the available paths in order to maximize a given utility function. To solve this problem, we propose a large family of decentralized sending rate control laws having the property that each of the members of this family "steers" the traffic allocation to an optimal o ...

Keywords: optimization, sliding mode control, traffic engineering

15 Network Protocols
Andrew S. Tanenbaum
December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

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16 Several secure store and forward devices
David M. Goldschlag
January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security**

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17 Analysis of the effects of SS7 message discard schemes on call completion rates during overload
Michael P. Rumsewicz
August 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 4

Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

18
Xunet 2: lessons from an early wide-area ATM testbed
Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert C.

Restrick
February 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 1
Full text available: pdf(231.69 KB) Additional Information: full citation, references, index terms

Keywords: asynchronous transfer mode, available bit rate, constant bit rate, variable bit rate

19 Providing guaranteed services without per flow management
Ion Stoica, Hui Zhang
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4
Full text available: pdf(1.72 MB) Additional Information: full citation, abstract, references, citings, index terms

Existing approaches for providing guaranteed services require routers to manage per flow states and perform per flow operations [9, 21]. Such a *stateful* network architecture is less scalable and robust than *stateless* network architectures like the original IP and the recently proposed Diffserv [3]. However, services provided with current *stateless* solutions, Diffserv included, have lower flexibility, utilization, and/or assurance level as compared to the services that can be ...

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Susan S. Owicki
September 1993 **Proceedings of the twelfth annual ACM symposium on Principles of distributed computing**
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